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DOCKET NO. ATEM 22.4990001

APPLICATION NO. 09/608,066

**FORM PTO-1449** 

INFORMATION DISCLOSURE STATEMENT

**APPLICANT** Astatke\_et al.

**GROUP** FILING DATE 1643 June 30, 2000

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
A	AA1	4,358,535	11/09/1982	Falkow et al.	435	5	12/08/1980
	AB1	4,446,237	05/01/1984	Berninger	436	504	03/27/1981
	AC1	4,563,417	01/07/1986	Albarella et al.	435	6	01/07/1986
	AD1	4,581,333	04/08/1986	Kourilsky et al.	435	6	04/29/1982
	AE1	4,582,788	04/15/1986	Erlich	435	6	01/07/1983
	AF1	4,582,789	04/15/1986	Sheldon, III et al.	435	6	12/18/1984
	AG1	4,683,194	07/28/1987	Saiki et al.	435	6	03/28/1985
	AH1	4,683,202	07/28/1987	Mullis	435	91	10/25/1985
	AI1	4,889,818	12/26/1989	Gelfand et al.	435	194	06/17/1987
	AJ1	4,965,188	10/23/1990	Mullis et al.	435	6	06/17/1987
THE	AK1	5,047,342	09/10/1991	Chatterjee	435	194	08/10/1989
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170.	AL1	EP 0 050 424	09/24/1981	Europe			Yes No
	AM1	EP 0 084 796	01/11/1983	Europe			Yes No
	AN1	EP 0 144 914	11/29/1984	Europe			Ye:
	A01	EP 0 119 448	02/10/1984	Europe			Ye: No
ite	AP1	EP 0 201 184	03/27/1986	Europe			Yes No

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Page 2 of 19 APPLICATION NO. ATTY. DOCKET NO. 09/608,066 0942.4990001 FORM PTO-1449 **APPLICANT** Astatke et al. INFORMATION DISCLOSURE STATEMENT FILING DATE **GROUP** 1643 June 30, 2000 U.S. PATENT DOCUMENTS **EXAMINER** FILING DATE **CLASS** SUB-CLASS NAME DATE DOCUMENT NUMBER INITIAL 536 05/15/1990 27 Gelfand et al. 01/07/1992 5,079,352 AA2 518 03/07/1990 436 Pirrung et al. 09/01/1992 5,143,854 AB2 91 06/14/1991 435 Rashtchian et al. 5,137,814 08/11/1992 AC2 05/16/1990 436 501 Berninger et al. 03/16/1993 5,194,370 AD2 03/18/1991 435 194 Kotewicz et al. 09/14/1993 5,244,797 AE2 303.7 11/13/1990 548 Barrett et al. 5,252,743 10/12/1993 AF2 69.1 01/28/1992 435 Chatterjee 5,270,179 12/14/1993 AG2 Rashtchian et al. 91.2 03/29/1993 435 08/02/1994 5,334,515 AH2 91.2 10/07/1992 435 Scalice et al. 08/16/1994 5,338,671 AI2 12/16/1991 435 6 Wang et al. 09/20/1994 AJ2 5,348,853 08/13/1990 252.3 435 Gelfand et al. 12/20/1994 AK2 5,374,553 FOREIGN PATENT DOCUMENTS **EXAMINER** TRANSLATION SUB-CLASS CLASS COUNTRY DOCUMENT NUMBER DATE INITIAL Yes No EP 0 237 362 03/13/1987 Europe AL2 Yes No EP 0 258 017 Europe 08/21/1987 AM2 Yes No EP 0 329 822 Europe 08/26/1988 AN2 Yes No WIPO WO 88/10315 12/29/1988 **A02** Yes No WIPO WO 89/06700 07/27/1989 AP2 OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Barnes, W.M., "The fidelity of Taq polymerase catalyzing PCR is improved by an N-terminal AR deletion," Gene 112:29-35 (1992). Bonnet, G., et al., "Thermodynamic basis of the enhanced specificity of structured DNA probes," <u>2</u> AS Proc. Natl. Acad. Sci. USA 96:6171-6176 (May 1999). Cardullo et al, "Detection of nucleic acid hybridization by non radiative fluorescence resonance <u>2</u> energy transfer," Proc. Natl. Acad. Sci. USA 85:8790-8794 (1988). AT DATE CONSIDERED **EXAMINER** EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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(HT	AA4	5,5	95,890	01/21/1997	Newton et al.	435	91.2	02/17/1995
<u> </u>	AB4	5,5	99,695	02/04/1997	Pease et al.	435	91.1	02/27/1995
	AC4	5,6	05,824	02/25/1997	Nielson et al.	435	194	06/16/1993
	AD4	5,6	14,365	03/25/1997	Tabor <i>et al</i> .	435	6	11/10/1994
	AE4	5,6	39,611	06/17/1997	Wallace et al.	435	6	11/09/1994
	AF4	5,6	46,019	07/08/1997	Nielson <i>et al</i> .	435	91.5	04/07/1994
	AG4	5,6	68,005	09/16/1997	Kotewicz et al.	435	194	03/12/1996
	AH4	5,7	28,526	03/17/1998	George, Jr. et al.	435	6	01/07/1995
	AI4	5,70	63,170	06/09/1998	Raybuck	435	6	06/05/1995
	AJ4	5,7	73,257	06/30/1998	Nielson <i>et al</i> .	435	91.1	06/06/1995
	AK4	5,8	00,992	09/01/1998	Fodor et al.	435	6	06/25/1996
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	AM4	EP (	0 436 644 B1	04/17/1996	Europe			Ye:
	AN4	EP (	795 612 A2	09/17/1997	Europe			Ye:
	A04	WO 9	98/09451	03/05/1998	WIPO			Ye:
U	AP4	WO 9	28/35060	08/13/1998	WIPO			Ye: No
			OTHER (	Including Autho	or, Title, Date, Pertinent P	Pages, etc.)		
Sto	AR	4	Clegg, R.M., fluorescence	et al., "Obse resonance ene	rving the helical geometry or rgy transfer," <i>Proc. Natl. A</i>	of double-strar Acad. Sci. USA :	ded DNA in solu 90:2994-2998 (19	ution by 993).
16	AS	4 Flaman, JM., et al., "A rapid PCR fidelity assay," Nucl. Acids Res. 22:3259-3260 (1994).						
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	AK5	6,090,552	07/18/2000	Nazarenko <i>et al</i> .	435	6	07/11/1997
	AJ5	6,048,690	04/11/2000	Heller et al.	435	6	05/14/1997
	A15	6,037,130	03/14/2000	Tyagi, et al.	435	6	07/28/1998
	AH5	5,952,172	09/14/1999	Mende et al.	435	6	06/12/1997
	AG5	5,948,899	09/07/1999	Arnold, Jr. et al.	536	24.3	06/05/1995
	AF5	5,925,517	07/20/1999	Tyagi, et al.	435	6	05/12/1995
	AE5	5,876,930	03/02/1999	Livak et al.	435	6	11/15/1995
	AD5	5,869,251	02/09/1999	Schuster et al.	435	6	11/25/1996
	AC5	5,866,336	02/02/1999	Nazarenko <i>et al.</i>	435	6	01/03/1997
1	AB5	5,846,729	12/08/1998	Wu et al.	435	6	07/01/1997
/1/2	AA5	5,837,832	11/17/1998	Chee et al.	536	22.1	05/16/1995
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				and Sharmon	s, D.K., "Inhibi	tion of UIV-1 C	everse Transcri	intase by Def	ined
	AS	<u>6</u>	Template/P	rimer DNA Oli ib. 8:91-112 (	gonucleotides: E	ffect of Templa	ate Length and E	Binding Chara	cteristics," J.
	AS	6	Jendis, J.	rimer DNA OU1 ib. 8:91-112 (	gonucleotides: E	inchien of Eros	sh HIV Type 1 Pa	ateint Isolate	es by a

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A	AR	7	Ju, J., et analysis,"	al., "Fluore: Proc. Natl. A	scence energy transfer d Acad. Sci. USA 92:4347-43	ye-labeled primers for 51 (1995).	DNA sequenci	ng and
	AS	7	Kainz, A.P. Fragments A	., et al., "S Adapted to th	pecificity-Enhanced Hot- e Annealing Temperature,	Start PCR: Addition of BioTechniques 28:278	F Double-Stran G-282 (Februar	ded DNA y 2000).
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12		0	Kleppe, K.,	et al "St	tudies on Polynucleotides. DNA Polymerases," J. Mol.	XCVI. Repair Replicat	ions of Shor	t Synthetic
	AS	8	DNA's as Ca		SAR POLYMETUSES, O. 7107.			
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Ma	AR	9	Internucle	et al., "Alterna otidic Phosphodi 1. 56:3757-3759	ting α, β-Oligothymidylates ester Linkages as Models for (1991).	with Alternating Antisense Oligo	g (3'→3")- a odeoxyribonuc	nd (5'→5")- :leotides," <i>J</i> .
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	AT	2	immunodefi	, et al., "Trans ciency virus typ 6:1173-1177 (198	cription-based amplification be 1 with a bead-based sandwi	system and deto ch hybridizatio	ection of amp n format," <i>Pi</i>	olified human roc. Natl. Acad.
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	AT	10	Luo, G., et e Virol. 78:232	∄1., "Inhibi 29-2333 (199	tion of influenza viral p	polymerases by min	imal viral RNA ded	coys," J. Gen
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